પુખના International School
Shree Swaminarayan Gurukul, Zundal

Name:	**Grade :7th ROLL NO-**
Date :	**Subject: Maths (SA 1) 21-22**
T.Sign :	**Marks: 60**

PART – A

(i) Multiple Choice Questions: [1 MARKS QUESTION] **[1 X 6 = 6]**

1. The reciprocal of 2/7 is

(a) 7/2 (b) 1/7 (c) 7/2 (d) -2/7

2. How many pieces of 13.2 cm can be cut from a 330 cm long rod?

(a) 25 (b) 28 (c) 21 (d) 35

3. The median of the data 2, 16, 29, 88, 49, 99, 16, 4, 37 is

(a) 16 (b) 29 (c) 99 (d) 88

4. The angle which makes a linear pair with an angle of 58^0 is of

(a) 122^0 (b) 123^0 (c) 119^0 (d) 69^0

5. If two supplementary angle are in the ratio of 1:2, then the bigger angle is

(a) 120^0 (b) 125^0 (c) 110^0 (d) 90^0

6. Value of (-10) X (-5) + (-7) is

(a) 40 (b) 43 (c) -43 (d) 23

(ii) Fill the blank: [1 MARKS QUESTION] **[1 X 4 = 4]**

1. . 25.4 X 1000 = _____

2. If sum of measure of two angles is 90^0, then the angle are _____

3. Measures of each of the angles of an equilateral triangle is _____

4. (-9) X 20 = _____

(iii) Tell whether the statement is true or false: [1 MARKS QUESTION] **[$\frac{1}{2}$ X 6 = 3]**

1. The data 6, 4, 3, 8, 9, 12, 13, 9 has mean 9.

2. Product of two negative integers is a negative integer.

3. 1 is only number which has its own reciprocal.

4. The reciprocal of a proper fraction is a proper fraction. .

5. Vertically opposite angles are either both acute angle or both obtuse angles.

6. Sum of the measure of three angles of a triangle is 180^0

(iv) Solve: Each carry one mark: [1 MARKS QUESTION] **[1 X 6 = 6]**

1. 5 X _____ = -35
2. The greater negative number
3. Write equation for: The sum of number x and 5 is 9
4. Find complementary angle of 30^0
5. Find the product $\frac{3}{7}$ X 4
6. Find the mode of 4, 5, 4, 7, 12, 4, 8 and 5.

PART – B

Solve: Each carry two marks (Any Five) **[2 X 5 = 10]**

1. Solve: (i) 2 – 3/5
2. Amit scores the following runs in eight innings: 58, 76, 40, 35, 46, 45, 0, and 100. Find mean score.
3. Verify the following (i) 18 X [7 + (-3)] = [18 X 7] + [18 X (-3)]
4. Write statement for the following equations:

   (i) P + 4 = 15 (ii) x – 10 = 0
5. Find the angle which is equal to its complement.
6. Find supplement of 120^0

Solve: Each carry three marks (Any Five) **[3 X 5 = 15]**

1. A plane is flying at the height of 5000m above the sea level. At a particular point, it is exactly above a submarine floating 1200 m below the sea level. What is the vertical distance between them?

2. In a quiz, team, A scored -40, 10, 0 and team B scored 10, 0, -40 in three successive round. Which team scored more? Can we say that we can add integers in any order?

3.

The rainfall (in mm) in a city on 7 days of a certain week was recorded as follows:

Days	Rain fall (in mm)
Monday	0.0
Tuesday	12.2
Wednesday	2.1
Thursday	0.0
Friday	20.5
Saturday	5.5
Sunday	1.0

(i) Find the range of the rainfall in the above data.

(ii) Find the mean rainfall for the week.

(iii) On how many days was the rainfall less than the mean rainfall.

4.

: The weights (in kg.) of 15 students of a class are:

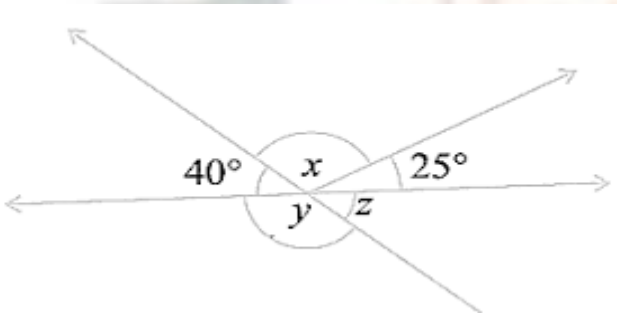
38, 42, 35, 37, 45, 50, 32, 43, 43, 40, 36, 38, 43, 38, 47

(i) Find the mode and median of this data.

(ii) Is there more than one mode?

5. Irfan says that he has 7 marbles more than five times the marbles permit has. Irfan has 37 marbles. How many marbles does permit have?

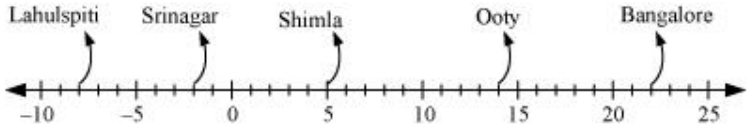
6. Find the values of the angles x, y and z in each of the following:



SOLVE: EACH CARRY FOUR MARKS (Any Four) **[4 X 4 = 16]**

1. The runs scored in a cricket match by, 11 players is as follows:
   6, 15, 120, 50, 100, 80, 10, 15, 8, 10, 15. Find mean, mode and median of this data.
2.

lowing number line shows the temperature in degree celsius (°C) at different places on a particular day.



(a) Observe this number line and write the temperature of the places marked on it.

(b) What is the temperature difference between the hottest and the coldest places among the above?

(c) What is the temperature difference between Lahulspiti and Srinagar?

(d) Can we say temperature of Srinagar and Shimla taken together is less than the temperature at Shimla? Is it also less than the temperature at Srinagar?

3. . Saili plants 4 saplings, in a row, in her garden. The distance between two adjacent saplings is ¾ m. Find the distance between the first and the last sapling.
4. Solve the following equations:
   (i) $2(x + 4) = 12$ (ii) $3(n – 5) = -21$
5. A tree is broken at a height of 5m from the ground and its touches the ground at a distance of 12m from the base of the tree. Find the original height of the tree.

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